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1	Talwanese Patent Pi	iblication No. 130638	
2	The present utility me	del relates to a direction control devic	e for a ratchet wrench.
3	More particularly, the	direction control device includes upp	er and lower plates (2; 3)
4	attached to a body (1)	by means of a bolt (121) so as to reta	n a toothed wheel 4 and a
5	pawl (5) in an end of	the body (1). The body (1) defines a le	ong recess (13) in which a
6	driver (6) is pivotally	put. The driver (6) defines a counters	nk hole (61) in upper and
7	lower ends and two se	quare holes (63) beside a central rotation	onal shaft (62) in order to
8	receive two hooks (71) of a knob (7). The driver (6) include	es a stop (65) extending
9	from a rear end. A lea	of spring 8 includes an end fit in a slit	51) defined in the pawl
10	(5) and an opposite en	d fit in a slit (64) defined in the driver	(6). Thus, as the knob
11	(7) is rotated, the dire	ction of the ratchet wrench (the pawl 5) is changed.

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TRANSLATION OF OFFICE ACTION BY TAIWAN INTELLECTUAL PROPERTY OFFICE ON OPPOSITION TO PATENT APPLICATION No. 089200570 POLIN TAIWAN

REASONS FOR REJECTION

- 1. The Subject Application entitled "RATCHET WRENCH (2)" was filed on Jan.
 11, 2000 and allowed on Oct. 24, 2001. The patentability of the Subject Application was determined based on the applicable Patent Law and Rules amended and published on Jan. 21, 1994.
- The Subject Application comprises a handle, a drive member, a pawl, a ring, a 2. revering plate, retaining means, and a transmission member. A head having a compartment is formed on an end of the handle. The drive member has first and second ends located outside the compartment in the head, with an intermediate portion of the drive member being rotatably received in the compartment of the head. A first teeth portion and a second teeth portion are formed on a side of the pawl, wherein the first teeth portion has a center of curvature located in a position different from a center of curvature of the second teeth portion. Two circles respectively formed by the curvatures with different centers intersect with each other at a point. A line passing through the point and one of the centers of curvatures is at an acute angle smaller than 30 degrees with another line passing through the point and the other center of curvature. The ring is pivotally mounted around the first end of the drive member and has a portion connected to the pawl. The reversing plate is pivotally mounted around the first end of the drive member. The retaining means is received in an end of the reversing plate. The transmission member is extended through a notch (p.s.: the rectangular opening section 142) between the drive member and the head. By means of operating the reversing plate which causes pivotal movement of the

CONFIDENTIAL – ATTORNEYS ONLY ring through the transmission member, the pawl slides to a desired position in which one of the first teeth portion and the second teeth portion is engaged with the drive member according to the ratcheting direction, thereby allowing reversible operation of the ratchet wrench (see the claims).

3. The opposition evidence II and the enclosure I (hereinafter together referred to as CITED REFERENCE 1) provided by the applicant initiating the opposition procedure are respectively the Patent Publication No. 212343 published on Sep. 1, 1993 and entitled "QUICK REPLACEMENT STRUCTURE FOR A D-SHAPED RATCHET WHEEL OF A RATCHET WRENCH" and a comparing figure containing an insert block of the Patent Publication No. 212343 and Fig. 2-4-1 of the Subject Application.

The evidence III (hereinafter referred to as CITED REFERENCE 2) provided by the applicant initiating the opposition procedure is Patent Publication No. 130638 published on Mar. 11, 1990 and entitled "DIRECTION ADJUSTABLE REVESING STRUCTURE FOR A RATCHET WRENCH."

The evidence IV (hereinafter referred to as CITED REFERENCE 3) provided by the applicant initiating the opposition procedure is Patent Publication No. 310649 published on Jul. 11, 1997 and entitled "IMPROVED CATCH TOOTH STRUCTURE FOR A RATCHET WRENCH."

The publication date of CITED REFERENCE 1 is earlier than the filing date of the Subject Application and includes a handle, an insertion block, a direction adjusting member, a C-shaped retainer ring, a spring, a steel ball, a D-shaped ratchet wheel, a compression spring, a positioning steel ball, a push rod, a returning member, and a positioning block. The head of the handle includes an axial through-hole. A side of the insertion block facing the D-shaped ratchet wheel includes ratchet teeth for forward ratcheting operation and ratchet

teeth for reverse ratcheting operation. The handle, D-shaped ratchet wheel, insertion block, and direction adjusting button correspond to the handle, drive member, pawl, and transmission member and reversing plate of the Subject Application. In the CITED REFERENCE 1, the direction adjusting member is used to move the insertion block, and the direction adjusting member is pivotally mounted around a first end of the D-shaped ratchet wheel and located outside the head. Thus, the technique of using the direction adjusting member to control engagement direction between the insertion block and the D-shaped ratchet wheel is identical to that of the Subject Application.

The publication date of CITED REFERENCE 2 is earlier than the filing date of the Subject Application and discloses a direction adjustable reversing structure for a ratchet wrench, wherein an upper plate and a lower plate are engaged by screws to a body, and a ratchet wheel and a catch are disposed in a through-hole in an end of the body. The catch having a first teeth portion and a second teeth portion corresponds to the pawl of the Subject Application.

The publication date of CITED REFERENCE 3 is earlier than the filing date of the Subject Application and discloses an improved catch tooth structure for a ratchet wrench, wherein the catch body having a first teeth portion and a second teeth portion corresponds to the pawl of the Subject Application.

The features of the Subject Application have been respectively disclosed in the CITED REFERENCES 1, 2 and 3. The high-torque reversing effects of the CITED REFERENCES 1, 2, and 3 are the same as that of the Subject Application. Thus, the Subject Application can be easily achieved by one skilled in the art and fail to provide improved effectiveness. Hence, the CITED REFERENCES 1, 2 and 3 are evidential, and the independent claims 1 and 2 do not posses improvement. Further, the specific shapes of the compartment, notch,

drive member, pawl, reversing plate, tip piece, positioning piece, and retaining means recited in dependent claims 3-15 of the Subject Application are simple application of prior art without providing improved effectiveness and therefore not possessing improvement.

In conclusion, the Subject Application fails to meet the requirement of Article 98, paragraph 2 of the applicable Patent Law.

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經濟部智慧財產局專利異議審定書

受 文 者:胡厚飛 先生(代理人:林殷世 先生

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發文字號:〈九一入九〇〇一二一一號發文日期:中華民國九十一年五月十七日

一、被異議案號數:〇八九二〇〇五七〇P〇一

被異議案名稱:棘輪扳手(二)

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第一頁

, 異議日期:九十年四月十日

八、審查人員姓名:顏政雄 委員

九、審定主文:異議成立,應不予專利

十、理由:

一)系爭案「棘輪板手(二)」係於八十九年一月十一日申請專利 日審定 准予專利 ,則其有無應不予專利之原因 應以 核 准審定時所適用之八十三年一 ,本局於九十年十月二十

二)系爭案係由扳手、驅動體 所組 月二十一 成 扳手一端 日修正公布之專利法 固設具容置間 、換 向塊 規定為斷 的 頭 部 撥動裝置 ,合先說 驅 動 、控制 體 明 以第 0 鈕、固定裝置與撥接件等主要構 、二端 分別凸出於 頭部容置空間

之外 面由 之夾角小 不同圓 中段容置於容置空間形成樞固 S 所形成之兩個弧率,兩 狀 圓心形成之圓交於一 態; 换 向 塊一 側分別設有第一與第二齒 點 月 兩 圓 心與相 交點所形成 面 ,各齒

設於 驅 動 體第一端;固定裝置容置於控制 於三十度 撥動裝置套合樞 設於 驅 鈕 動 之一端; 體 之第 撥接件穿設過 一端 側 連 驅 動 動體 換 向 與扳 塊 手頭部 控制 鈕 間 樞

塊 的缺 向操作之 則 依 换 功能 向 藉操作控制鈕, 位置之不同分別以其第一或第二齒面與驅動體 者(詳見申請專利範圍) 利用撥接件連動撥動裝置之棒擺,帶動換向塊產生滑移一 產生嚙合,達棘輪扳手具有換

異議證據二與附件一分別為八十二年九月一 日公告第二一二三四三號「棘輪扳手之棘

第二頁

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號 整結構」 彈簧、定位鋼珠、推桿、彈復元件與定位塊等六件所組成,棘輪扳手頭部設有貫穿軸 稱 日 引 頭 棘輪扳手止 係 快 證 由 速拆 專利案影本 棘 換構造」專利案影本及其嵌掣塊與系爭案第二圖之四之一的記 輪 扳 證 手、 齒改 據三 嵌掣塊 良結構」專利案影本(引證三)。引證一公開日期早於系爭案申 為七十九年三月十一日公告第一三〇六三八號「棘輪扳手之轉 (引證二),證據四為八十十六年七月十一 方向調節鈕 、「C」型扣環、彈簧、 日公告第三 鋼珠、棘輪D頭、壓縮 較圖 $\overline{\bigcirc}$ 以下 六 四 向 孔 九 調

口

二齒 以 引 方向 扳手公開 頭 定 證 嵌掣塊 調節 面 位螺絲與本體結合,並 藉 之棘輪掣 利 日 用一 於 調 鈕 節 等主要構件分別相當於系爭案扳手、 期早於系爭案申請日 面 鈕 方向調節鈕來連動嵌掣塊 對棘輪D頭之一側設有正向與逆向棘齒,其棘輪扳手、棘輪D頭 塊 操 控 嵌掣塊與棘 相 當於系爭案的 將棘輪及棘輪掣塊定位於本體一 , 揭 輪D 换 示 頭嚙合方向之技術手段與系爭案相同 向 一種棘輪 , 調節鈕 塊 引 驅動體 扳手 樞 證 Ξ 設於棘輪D 之轉向調整結構 揭 示公開 換向 端貫穿槽 塊 日早於系爭案申請日 頭之第一 撥 動裝置 內 端且 係藉 ,其具第 , 與 、嵌掣 引證二棘輪 凸出於扳 上、 控控 下片體 制 一與第 塊與 鈕 揭

二、三具證據力,足以證明系爭案申請專利範圍第 與系爭案相 示 種 棘 案 技藝已分別見於引證一、二、三中,引證一、二、三具有高 輪 同 扳手止齒 系爭案為熟習該項技藝人士 結構 其具第一 齒面與第二面 所 能 **純輕易完** 之止回爪本體 、二項獨 成 且 一未能 立項不具進步性 增 進 相當系爭案的換 扭力之换 功 效 故 引 向 0 另系爭 證 功 效 向 塊

第三頁

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案申請專利範圍附屬項第三、四、 五、六、七

狀特徵皆為習知技藝之簡單運用 十五項之容置空間 缺口 驅 動體 **, 9**, 並未增進功效 换 向 塊 控 , 制 亦不具進步性 鈕 撥片 定位片及固定裝置等形

據上論結:系爭案違反核准審定時應適用之專利法第九十八條第二項之規定,爰審定如主文 如有不服,得於本處分書送達之次日起三十日內備具訴願書正、副本 **平處分書影本經由本局向經濟部提起訴願** (均含附件) ,並檢附

何長球



依照分層負責規定授權單位主管決行

第四頁

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十二、十三、十四

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